

Grade 3 Academic Standards

Unit 1 Lesson

Science

Standard 1 The Nature of Science and Technology

Technology and Science

- 3.1.6 Give examples of how tools, such as automobiles, computers, and electric motors, have affected the way we live.

Standard 2 Scientific Thinking

Critical Response Skills

- 3.2.7 Ask “How do you know?” in appropriate situations and attempt reasonable answers when others ask the same question.

Standard 3 The Physical Setting

The Earth and the Processes that Shape It

- 3.3.7 Identify and explain some effects human activities have on weather.

Standard 4 The Living Environment

Human Identity

- 3.4.8 Explain that some things people take into their bodies from the environment can hurt them and give examples of such things.

Standard 5 The Mathematical World

Reasoning and Uncertainty

- 3.5.5 Explain that one way to make sense of something is to think of how it relates to something more familiar.

Standard 6 Common Themes

Constancy and Change

- 3.6.4 Take, record, and display counts and simple measurements of things over time, such as plant or student growth.

Unit 1 - Activities 1,2,3 satisfy the following Indiana academic science standards:

Science

- 3.1.2 Participate in different types of guided scientific investigations, such as observing objects and events and collecting specimens for analysis.
- 3.1.3 Keep and report records of investigations and observations using tools, such as journals, charts, graphs, and computers.
- 3.1.4 Discuss the results of investigations and consider the explanations of others.
- 3.1.6 Give examples of how tools, such as automobiles, computers, and electric motors, have affected the way we live.
- 3.2.2 Measure and mix dry and liquid materials in prescribed amounts, following reasonable safety.
- 3.2.6 Make sketches and write descriptions to aid in explaining procedures or ideas.
- 3.3.5 Give examples of how change, such as weather patterns, is a continual process on Earth.
- 3.3.7 Identify and explain some effects human activities have on weather.
- 3.4.6 Explain that people need water, food, air, waste removal, and a particular range of temperatures, just as other animals do.
- 3.4.8 Explain that some things people take into their bodies from the environment can hurt them and give examples of such things.
- 3.5.1 Select and use appropriate measuring units, such as centimeters (cm) and meters (m), and kilograms, and degrees Celsius (°C).
- 3.5.5 Explain that one way to make sense of something is to think of how it relates to something more familiar.

- 3.6.3 Explain how a model of something is different from the real thing but can be used to learn something about the real thing.
- 3.6.4 Take, record and display counts and simple measurements of things over time, such as plant or student growth.
- 3.6.5 Observe that and describe how some changes are very slow and some are very fast and that some of these changes may be hard to see and/or record.